Model: TSHS693A

Thank you for purchasing our Multi-Sensor Fire Alarm. Please take a few minutes to read the user's manual thoroughly and familiarize yourself and your family with its operation. And save it for future reference.

SPECIFICATIONS

Power: 100-240V AC 50-60Hz
with 3V battery backup
Alarm volume: >85dB (A) at 3 meters
Alarm sensitivity: 54°C to 65°C
Silence time: approx. 8 minutes
Comply with: EN14604:2005 & BS5446-2:2003
Sound pattern: ISO8201 (BI 0.5s - pause 0.5s - BI 0.5s - pause 0.5s - BI 0.5s - pause 1.5s, with the red LED flashing, repeat this alarm pattern.)
Wired interconnection alarm sound pattern:
BI - BI - pause 0.5s, BI - BI - pause 0.5s, BI - BI - pause 1.5s, without the red LED flash, repeat this alarm pattern.

DESCRIPTION

The unit is a Multi-Sensor Fire Alarm with both temperature detection and smoke detection to provide a faster response to a wider range of fires. It detects smoke and heat from fires and is ideal for corridors, stairways, living rooms and bedrooms.

RECOMMENDED LOCATIONS FOR ALARMS

1. The locations must comply with the applicable building regulations. BS 5839-6:2013 gives guidance on the number, types and positioning of alarms. In general, smoke alarms should be installed in every circulation space such as Hallways, Landings, Bedrooms and principal living spaces (living room). Larger spaces may require the use of more than one unit.
2. Installed on each and every storey.
3. Hot smoke rises and spreads out, so a central ceiling position is the preferred location. The air is "dead" and does not move into corners, therefore smoke must be mounted away from corners. Position the unit at least 30 cm away from walls and corners and 30cm away from any light fitting or decorative object witch may obstruct smoke entering the Alarm. (see the diagram 1).
4. When the ceiling is slanting, the alarm needs to be installed minimum 50cm away from the highest ceiling point in the room (see the diagram 2).

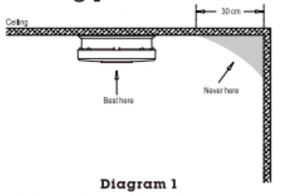


Diagram 1

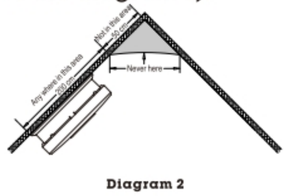
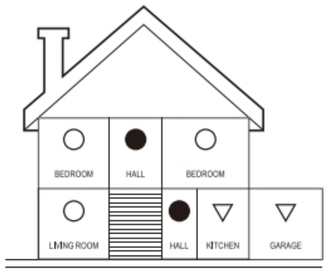


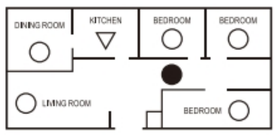
Diagram 2

5. For best protection heat alarms should be installed as part of a complete fire protection system that also includes smoke alarms. Heat alarms are best suited to areas such as boiler rooms, kitchens, laundry rooms and garages where dust, fumes and moisture can cause nuisance alarms in smoke detectors. Heat alarms should not be installed in escape routes instead of smoke alarms. They should only be used in the above applications and where possible be interlinked to smoke alarms. (Smoke alarms should be installed in circulation areas forming part of escape routes and in every room in the home). The advice here follows the guidance in British Standard BS 5839-6: 2013in general (for further information see the BS standard itself).
6. When heat alarms are installed in a room, they should be placed on the ceiling, ideally in the centre of the room. They should be at a distance no greater than 5.3m from the farthest wall no greater than 5.3m from a door to any room in which a fire might start and no greater than 5.3m from the next heat alarm NOTE: Heat alarms should not be wall mounted.
7. Closed doors and other obstructions will interfere with the path of heat to an alarm and may prevent occupants from hearing an alarm on the other side of a closed door. Install sufficient alarms to compensate for closed doors and obstacles.

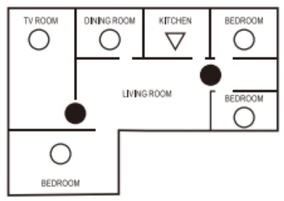
TWO Storey dweling



Single storey, one sleeping



Single storey, two sleeping



● Smoke alarms for limited protection
○ Additional smoke alarms for better coverage
▽ Heat alarms

LOCATIONS TO AVOID

1. Don't place Alarms in bathrooms, Kitchens, Garages or other rooms where the Alarm may be triggered by steam, condensation and normal smoke/heat from appliances.
2. In areas with high humidity, like bathrooms or areas near dishwashers or washing machines, install at least 3 meters away from these areas.
3. Near air returns or heating and cooling supply vents, install at least 1m away from these areas. The air could blow smoke away from the detector, interrupting its alarm.
4. In rooms where temperature may fall below 0°C or rise above 40°C. (due to nuisance/false alarm activation).
5. In extremely dusty, dirty, or insect infested areas where particles may interfere/obstruct with Alarm operation.
6. Away from air conditioning or ventilation grilles/ louvres.

ACTIVATION

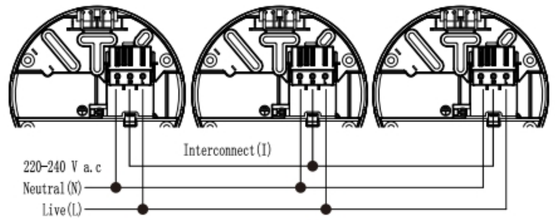
The battery power is automatically connected as the Alarm slides onto the install mounting plate.

INTERCONNECTING ALARMS

• Interconnecting alarms are linked wired together so that if one alarm is activated then all alarms which are linked in the circuit are also sounded.
• This alarm is capable of providing wired interconnection functions.

Wiring Diagram for Wired Interconnection

TERMINAL
L: Live
N: Neutral
I-Connect: Interconnect



Installation – Wired connection

1. Strip the Active, Neutral and Interconnect (if used) wires back to the strip length shown at Diagram 3. Connect the wires to the correct terminals on the base (shown at Diagram 4) and ensure the terminal screws are fully tightened. Check all wires for continuity and correct termination and ensure that the interconnect wires have not been cross connected to either active or neutral terminations.
2. Ensure that the terminal cover is closed to avoid contact with the active terminals as shown at Diagram 5.
3. Screw the mounting base onto the ceiling using the appropriate fasteners.
4. Clip the Alarm on to the base.
5. Turn on the mains power and check that the alarm Green and Red LED's function:
a) The Green LED should illuminate to show mains power present.
b) The Red LED will pulse every 48 seconds to indicate correct operation and that the backup battery proves serviceable.

6. Press the Test/Hush button to check that the alarm works.
Installation is not complete until both LEDs are functioning correctly and the alarm has been checked for correct operation.
Wiring must be installed in compliance with local regulations.
Use a minimum of 1.0 mm² 250 V insulated wire for all wiring, including interconnecting wiring.(0.08-1.3mm² wire is recommended)
In the UK it is recommended that the following colored cores are used (for example with triple flat 6243Y cable).

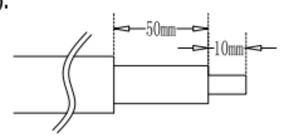


Diagram 3

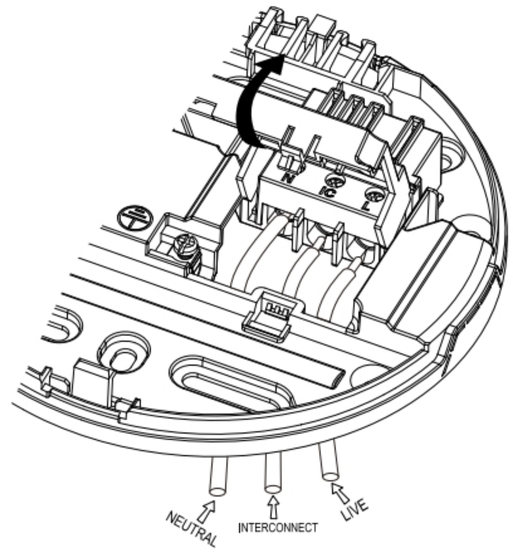


Diagram 4

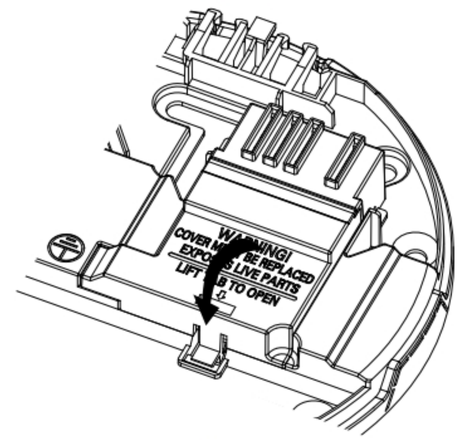


Diagram 5

CAUTION

Risk of injury and equipment damage/ malfunction

• All interconnected Alarms must be supplied from the same circuit.
• A common Neutral must be used for the

SMOKE ALARM CONTROLLER
USER MANUAL

MODEL NUMBER: TWR0101R

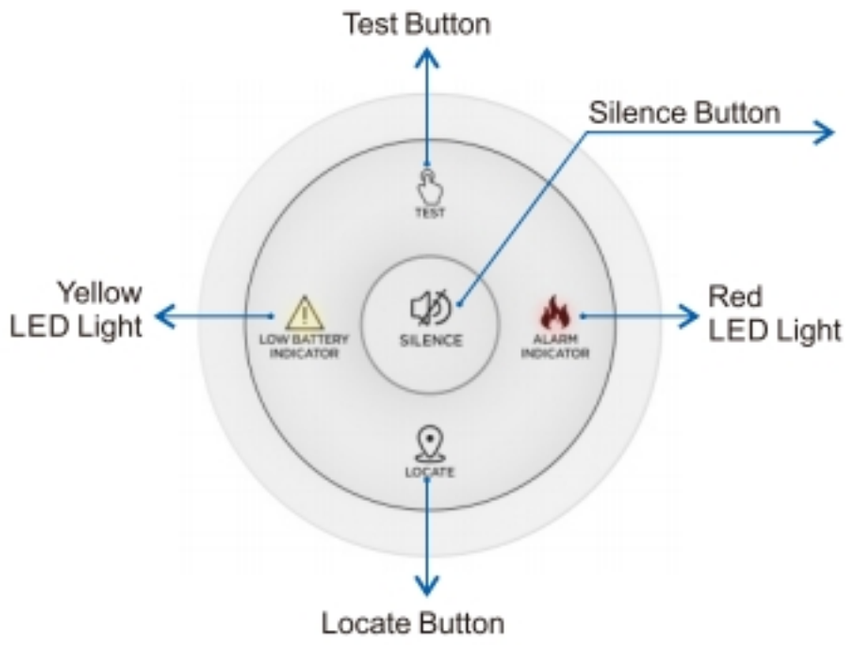
Thanks for choosing the smoke alarm controller. Please take a few minuates to read the user manual thoroughly and familiarise yourself with its operation.

POWER SUPPLY:	Cr2450 replaceable battery
BATTERY LIFE TIME:	3 years
FREQUENCY:	433MHz
MODULATION:	FSK
OPERATING TEMPERATURE:	0~40℃
OPERATING HUMIDITY:	15%~95% (Non Condensing)
RF PERFORMANCE:	EN 300-200-2
EMC PERFORMANCE:	EN 301 489-1, EN 301 489-3

DESCRIPTION

This smoke alarm controller is a device that wireless interconnection with all the smoke alarms in family. It helps to test smoke alarm, silence smoke alarm and locate to find out source smoke alarm easily in daily life.

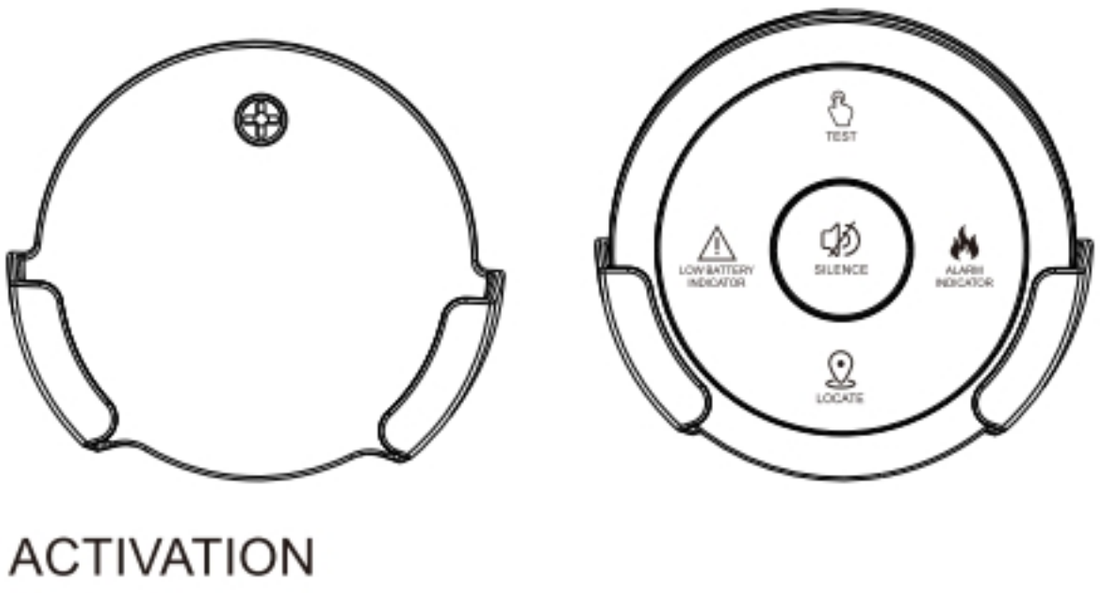
ALARM CONTROLLER FUNCTIONALITY



Test	Press the " TEST " button with red LED flashes once, all interlinked smoke alarms will beep for 7 seconds.
Locate	Press the " LOCATE " button with red LED flashes once, silence all smoke alarms except the one sensing fire.
Silence	Press the " SILENCE " button with red LED flashes once, all smoke alarms will be silenced for 8 minutes.
Fire Indicator	When the smoke alarm alarming, the red LED will flash twice a second.
Low Battery Indicator	When the smoke alarm controller is in low battery mode, the yellow LED will flash once every 8 seconds.

INSTALLATION

The Smoke Alarm Controller is suggested to be installed on the wall 1.4m+/-0.2m from floor level, which will provide the best wireless transmission distance.



ACTIVATION

Press silence button and hold it for about 5 seconds until the red and yellow light at the same time, which means the device is activated. Then release the button.

CAUTION: This device is only need to be activated the first time you use it.

Zhejiang Jiaboer Electronic Technology Co., Ltd No.72, Dayantou, Tingshan Village, Dayuan Town, Fuyang District, Hangzhou City, Zhejiang Province, China

Technology of Energy & Controls Co.
شركة تقنية طاقة التحكم المحدودة

Technology of Energy & Controls Company

حساس دخان
TEC-SD-B10

الاستخدام والصيانة

هو جهاز إلكتروني يثبت في السقف ومصمم لاكتشاف الدخان كتحذير مبكر للحريق

مواصفات المنتج :

- شدة الصوت ≥ 85dB(A) لمسافة 3 متر
- بطارية 9V
- تغطية مساحة 20-40 متر مربع
- حساس دخان
- وجود زر اختبار

قواعد السلامة:

- الرجاء عدم إستخدام المنتج في حال كان الغطاء مفتوحا أو مكسورا
- الرجاء عدم تعريض المنتج لأشعة الشمس المباشرة أو الحرارة
- يجب على المستخدم عمل اختبار دوري للتأكد من نهاية عمر البطارية وابدالها عند اللزوم
- يجب استبدال البطارية عند سماع صوت وومضات تنبيه كل 30 ثانية

@ tecco_ksa ☎ 92000 2095 Tecco.com.sa

MODEL NUMBER: 10RF

Supply voltage:	1.9-3.6V
Current consumption:	0.4uA @ Sleep mode
	4.2mA @ Rx mode (AGC ON)
	22mA @ Tx mode (10dBm)
Frequency:	433 MHZ
Modulation:	FSK
Operating temperature:	-40~85°C
Dimension:	38.1mm (L) x21.2mm (W)x33.8mm (H)

SYSTEM EXAMPLES

1. Wireless interconnection system